STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI 600 086 (For candidates admitted during the academic year 2008-09 & thereafter)

SUBJECT CODE: BT/AC/GB13

B. Sc. DEGREE EXAMINATION, NOVEMBER 2008 BRANCH VI (a) – ADVANCE ZOOLOGY AND BIOTECHNOLOGY FIRST SEMESTER

COURSE	:	ALLIED – CORE GENERAL BOTANY-I				
PAPER	:				MAX.MARKS:100	
TIME	:	2½ HOURS	CECTION		MAX.MA	AKKS:100
ANSWER	RALL	QUESTIONS	SECTION	- A	($(20 \times 1 = 20)$
I.	FILL	. IN THE BLANKS				$(5 \times 1 = 5)$
	1.	Arecaceae belongs to the series			_•	
	2.	The fruit of cucurbitaceae is a The sexual fruit body of <i>Aspergillus</i> is a Inverted cortical bundles are seen in				
	3.					
	4.					
	5.	Sargassum belongs	s to the order		_·	
II.	MATCH THE FOLLOWING					$(5 \times 1 = 5)$
	6.	Milky latex	_	substrate		
	7.	Closed bundle	_	Polyporus		
	8.	Conceptacles	_	root		
	9.	Straw	_	Sargassum		
	10.	Bracket fungi	-	Apocynaceae		
III.	ANSWER TRUE OR FALSE					$(5 \times 1 = 5)$
	11.	Cucurbitaceae poss	sess tendril			
	12.	1				
	13.	· · · · · · · · · · · · · · · · · · ·				
	14.	<u>.</u>				
	15.					
IV.	CHOOSE THE CORRECT ANSWSER					$(5 \times 1 = 5)$
	16.	Hooded anthers are	a characterist	ic of		
	10.	a) Fabaceae b)			reae d)	Orchidaceae
	17.	In Areca the edible		ac c) minoriae	cae a)	Oremdaceae
	17.		seed	c) cotyledor	n d)	endosperm
	18.	Which one of the f				chaosperm
	10.		b) <i>Pilobolus</i>	-	d)	Synchytrium
	19.	A marine brown al	,	s c) mongo	u)	Synchynum
	1).		ga. b) <i>Chara</i>	c) Cladoph	ora d)	Caulerpa
	20.	After secondary gr	*			-
		a) Medullary ray			_	Phloem

V. WRITE IN 30 WORDS. ANSWER ANY 6 OF THE FOLLOWING

 $(6 \times 3 = 18)$

- 21. Bilabiate corolla
- 22. Collateral bundle
- 23. Heterocyst
- 24. Hymenium
- 25. Spawn
- 26. Androecium of Apocynaceae.
- 27. Coenocytic hypha
- 28. Vascular cambium
- 29. Anisogamy

SECTION - B

ANSWER ANY FOUR QUESTIONS. EACH ANSWER NOT TO EXCEED 200 WORDS. $(4 \times 8 = 32)$

- 30. Give the diagnostic features of Annonaceae with diagrams.
- 31. Explain secondary growth in a dicot root.
- 32. Write the steps involved in the cultivation of edible mushroom.
- 33. If you are given a *Ficus* plant how will you make the plant a dwarf?
- 34. Bring out the structure of thallus of *Chara*.
- 35. Write the stages of the *zygospore* formation in *Rhizopus*.

SECTION - C

ANSWER ANY TWO QUESTIONS. EACH ANSWER NOT TO EXCEED 1000 WORDS. $(2 \times 15 = 30)$

- 36. Explain the life cycle of *Aspergillus*.
- 37. Give the outline of the classification of Bentham & Hooker and write its merits and demerits.
- 38. Explain anomalous secondary growth as seen in *Boerhaavia*.
- 39. Write about sexual reproduction in *Sargassum*.